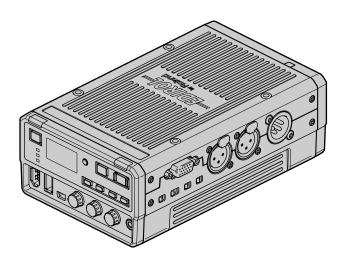


Video Field Recorder **F-1**

Owner's Manual



Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" (p. 6–8), "IMPORTANT NOTES" (p. 9–10), and "An Important Notice Regarding the Software" (p. 60–63). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, Owner's Manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

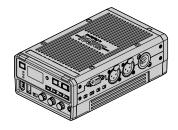
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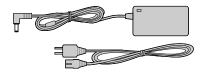
Confirm the Contents of the Package

The F-1 includes the following items. Please take a moment to confirm that all of these items have been included with the F-1. If you find that any item is missing, contact the nearest authorized EDIROL/Roland distributor in your country.

☐ F-1



☐ AC adaptor/Power cord



- The shape of the power cord's plug varies depending on the country.
- Conversion cable

(AC adaptor ↔ 4pin XLR type connector)



☐ **USB cable** (Y type with power supply)



Ferrite core x 4

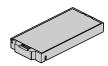








- Attach these to the i.LINK cable and the LAN cable.
- Battery case



Removable storage

(F1-HD120: 120 GB Hard Disk Drive)



Owner's manual



For the U.K.-

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

BLUE: NEUTRAL BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.

Main Features

Direct capture of HDV/DV streams

HDV/DV file capture can be completed anywhere during recording.

Connect to a PC via USB and copy materials in faster than real time

The F-1 and a PC can be connected via USB and the captured files can be imported. By importing your material via USB you can save time by eliminating the need to capture to your software in real time.

Synchro Capture for audio input

Audio can be captured in stereo and synchronized with the video capture. The captured audio can be imported directly in a non-linear editing environment on a PC.

Unlimited capture time

The file system is NTFS. A captured file can be as large as permitted by storage.

Removable storage

The internal F-1 storage drives can be inserted or removed. Drives that has been removed can be connected to a PC with the included USB cable. If you keep a number of storage units on hand, and switch them as needed, you can resume recording right away.

Two power systems (DC 12V power supply, AA battery operation)

The unit can be operated on a DC 12V power supply or by AA batteries. Use them together for a redundant failover power supply.

Audio input using a phantom power

The audio input connector is equipped with a phantom power.

Material check on a VGA display

By inputting the DISPLAY OUT signal to a display that supports VGA input, the material list stored on the F-1 can be shown.

Connect directly to a USB mass storage device to copy materials

Connect the F-1 to a handy USB memory device or USB hard disk to extract data from the F-1.

Network support

Since there is an onboard LAN connector, materials can be copied to a PC via a local Ethernet network, and the unit can even be controlled remotely by a PC.

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USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About 🗘 WARNING and 🗘 CAUTION Notices

⚠WARNING Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly. Used for instructions intended to alert the user to the risk of injury or material

A CAUTION

damage should the unit be used improperly.

* Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

About the Symbols

The Symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.

The symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

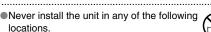
ALWAYS OBSERVE THE FOLLOWING

♠ WARNING

Do not open (or modify in any way) the unit or its AC adaptor.



• Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest EDIROL/Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.





- Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heatgenerating equipment); or are
- Damp (e.g., baths, washrooms, on wet floors); or are
- · Exposed to steam or smoke; or are
- · Subject to salt exposure; or are
- · Humid; or are
- · Exposed to rain; or are
- Dusty or sandy; or are
- Subject to high levels of vibration and shakiness.

⚠ WARNING

• Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces.



•Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.



Use only the attached power-supply cord.
 Also, the supplied power cord must not be used with any other device.



•Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock



hazards!

∴ WARNING

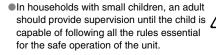
- This unit in combination with a headphones may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should immediately stop using the unit, and consult an audiologist.
- Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.



• Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest EDIROL/Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when:



- The AC adaptor, the power-supply cord, or the plug has been damaged; or
- · If smoke or unusual odor occurs
- Objects have fallen into, or liquid has been spilled onto the unit; or
- The unit has been exposed to rain (or otherwise has become wet); or
- The unit does not appear to operate normally or exhibits a marked change in performance.





Protect the unit from strong impact.(Do not drop it!)



AWARNING

● Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.



Before using the unit in a foreign country, consult with your retailer, the nearest EDIROL/Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.



 Batteries must never be recharged, heated, taken apart, or thrown into fire or water.





 Never expose Battery to excessive heat such as sunshine, fire or the like.



⚠ CAUTION

• The unit and the AC adaptor should be located so their location or position does not interfere with their proper ventilation.



 Always grasp only the plug on the AC adaptor cord when plugging into, or unplugging from, an outlet or this unit.

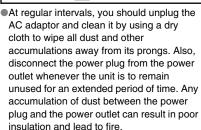


If used improperly, batteries may explode or leak and cause damage or injury. In the interest of safety, please read and observe the following precautions (p. 24).



- Carefully follow the installation instructions for batteries, and make sure you observe the correct polarity.
- Avoid using new batteries together with used ones. In addition, avoid mixing different types of batteries.
- If not using the unit for several months, please remove the batteries.
- If a battery has leaked, use a soft piece
 of cloth or paper towel to wipe all
 remnants of the discharge from the
 battery compartment. Then install new
 batteries. To avoid inflammation of the
 skin, make sure that none of the battery
 discharge gets onto your hands or skin.
 Exercise the utmost caution so that none
 of the discharge gets near your eyes.
 Immediately rinse the affected area with
 running water if any of the discharge has
 entered the eyes.
- Never keep batteries together with metallic objects such as ballpoint pens, necklaces, hairpins, etc.
- Do not allow any foreign metal objects to touch the terminals of the battery case.
 Doing so may cause the batteries to short and the battery case may overheat or catch fire.
- Before use, carefully read the cautions printed on the battery as well as the owner's manual that accompanies the battery.

A CAUTION





Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.



 Never climb on top of, nor place heavy objects on the unit.



 Never handle the AC adaptor or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit.



 Before moving the unit, disconnect the AC adaptor and all cords coming from external devices.



 Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet.



 Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet.

.....



• Always turn the phantom power off when connecting any device other than condenser microphones that require phantom power. You risk causing damage if you mistakenly supply phantom power to dynamic microphones, audio playback devices, or other devices that don't require such power. Be sure to check the specifications of any microphone you intend to use by referring to the manual that came with it.



This instrument's phantom power: DC 48V (unloaded maximum), 14 mA (maximum load)

IMPORTANT NOTES

Power Supply: Use of Batteries

- Do not connect this unit to same electrical outlet that is being used by an electrical appliance that is controlled by an inverter (such as a refrigerator, washing machine, microwave oven, or air conditioner), or that contains a motor. Depending on the way in which the electrical appliance is used, power supply noise may cause this unit to malfunction or may produce audible/visible noise. If it is not practical to use a separate electrical outlet, connect a power supply noise filter between this unit and the electrical outlet.
- The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.
- The use of an AC adaptor is recommended as the unit's power consumption is relatively high. When using batteries, please use nickel metal hydride batteries.
- •When installing or replacing batteries, always turn off the power on this unit and disconnect any other devices you may have connected. This way, you can prevent malfunction.

Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum or visible noise. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- •Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit.

Placement (continued)

- When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.
- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface. You can place a piece of felt or cloth under the
 - rubber feet to prevent this from happening. If you do so, please make sure that the unit will not slip or move accidentally.
- Depending on the circumstances of a particular setup, you may experience a discomforting sensation, or perceive that the surface feels gritty to the touch when you touch this device, microphones connected to it, or the metal portions of other objects. This is due to an infinitesimal electrical charge, which is harmless to humans; however, if you are concerned, please use batteries as necessary.

Maintenance

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation

Memory Backup

• When there is no battery power to the F-1, the date/time settings can be saved for up to about thirty days. If batteries are inserted as a backup power supply (p. 25), the date/time settings can be maintained for a longer period.

Additional Precautions

•When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.

Additional Precautions (continued)

- Damage or breakdown of the unit or mistakes in operation may result in the loss of data stored in memory. To avoid problems in the event of the loss of important data, we recommend to save the data to your computer or USB mass storage.
- Unfortunately, it may be impossible to restore the contents of data that was stored on a removable storage, or USB mass storage once it has been lost. Roland Corporation assumes no liability concerning such loss of data.
- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- Never strike or apply strong pressure to the display.
- When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.

Handling Hard Disks

Important Performance and Image Data

Once a hard disk fails to function normally, all data that has been stored on it could be destroyed. All hard disks eventually wear out. We recommend that you consider the hard disk not as a permanent storage site, but as a place to store data temporarily. We also recommend that you back up important performance and image data that cannot be recorded again onto your computer or USB mass storage (p. 29, 33, 40, 41). Note that Roland assumes no liability whatsoever, including monetary compensation, for the loss of any recorded content in the event of the malfunction of, or physical damage to the hard disk, or for any direct or incidental damages resulting from the loss of such data.

Precautions Regarding Setup and Use

- Certain hard disk setup procedures and usage conditions may result in the corruption of recorded data, malfunctioning, or physical damage to the disk, so be sure to observe the following precautions.
 - Do not subject the hard disk to vibration or shock, especially while the unit is in operation.
 - Do not set up the unit in any location where it may be affected by vibration from external sources, or on any surface that is not stable.

Handling Hard Disks (continued)

- Please do not block the cooling fan vent on the side panel.
- Do not leave the unit in any environment subject to temperature extremes; for example, in a closed automobile in summer or outdoors during winter.
- Do not use the unit in conditions of high temperature and humidity or in any location subject to rapid temperature changes.
- If batteries are not installed, please do not unplug the unit from the outlet or turn off the breaker at the installation site while the power is turned on.

Emergency Procedures

- * The following procedures are to be used as emergency measures only, and are not recommended for normal operation.
- •If the device fails to respond to operational commands or does not complete operations, use the following procedures to turn off the power:
 - Hold down the [(b) (power)] button for about four seconds to switch off the power.
 - Unplug the power cord from the electrical outlet. (If batteries are installed, remove the battery case.)

If the unit does not operate normally when the power is turned on again, it may mean that the hard disk has been damaged. In such instances, consult your dealer or the nearest EDIROL/Roland Service Center. Note, however, that it may not be possible to recover any data from the hard disk once it has been lost.

Also, please perform periodic scans of the hard disk (p. 39) even if operating normally.

Copyright

- Recording, duplication, distribution, sale, lease, performance, or broadcast of copyrighted material (musical works, visual works, broadcasts, live performances, etc.) belonging to a third party in part or in whole without the permission of the copyright owner is forbidden by law.
- Do not use this unit for purposes that could infringe on a copyright held by a third party. We assume no responsibility whatsoever with regard to any infringements of third-party copyrights arising through your use of this unit.

Making a Recording

Capturing by Connecting a HDV/DV Camera

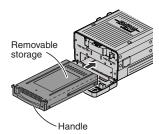
Connect an HDV/DV camera to the F-1 with the i.LINK cable, and capture the camera output.

Preparations

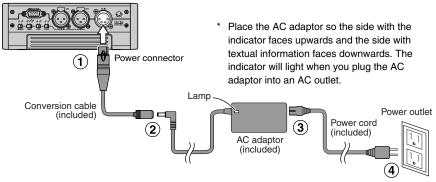
- 1 Install the removable storage included with the F-1.
 - * Make sure to switch off the power before installing the removable storage. Failure to do so may result in damage to the contents of the removable storage.
 - 1 Unlock the rear cover, then open it.
 - With the grooved side facing up, insert the removable storage.

With the handle lowered, firmly insert the removable storage until it reaches the back.

(3) Close the rear cover and lock it.



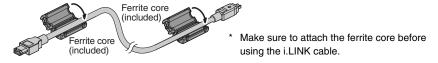
2 Connect the AC adaptor.



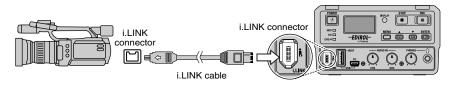
* The shape of the power cord's plug varies depending on the country.

- * Batteries can be used as backup power. If batteries are used, even if power from the AC adaptor is cut off by a power outage, the capture process will continue.
 See "Using Batteries" (p. 24) for details.
- 3 Attach the included ferrite cores to both ends of the i.LINK cable.

Insert the i.LINK cable in the ferrite core, and close and press the ferrite core together until you hear a click.

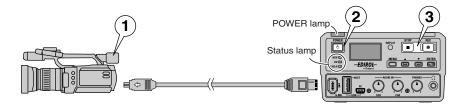


4 Connect the F-1 and HDV/DV camera with the i.LINK cable.



- * There are two types of i.LINK cable connectors: 6-pin and 4-pin. Make sure to use the i.LINK cable that matches the device that you are using.
- * The i.LINK cable unplugs easily, so be careful when filming in busy locations.
- * To prevent malfunction, always turn off the power on all devices before making any connections.
- * The EDIROL DV-7R and DV-7PR are not supported.

Capturing



1 Put the HDV/DV camera in "Camera Mode" and turn on the power.

* "Camera Mode" may be called by another name, depending on the camera manufacturer.

2 Press the [() (POWER)] button on the F-1 to turn on power.

The POWER lamp lights when power is turned on. Please wait until the Home screen is displayed.

The status lamp lights according to the format of the connected camera.



For HDV Format	The HDV lamp lights.
For DV Format	The DV lamp lights.

^{*} It may take up to 10 seconds for the camera to be recognized.

3 Press the [● (REC)] button on the F-1 to start capturing video.

Press the [■(STOP)] button to stop capture.

* See "Checking Captured Video and Audio" (p. 15) when checking on the captured video.

Capturing Video and Audio

You can capture high quality audio from the microphone input and line input.

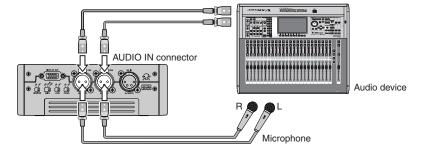
Audio capture happens at the same time as HDV/DV stream capture. You can capture the audio on location and synchronize to the video.

* The timing of the capture of video and audio will not match perfectly. A slight gap (a few frames) occurs between the timing of the capture of audio and video, because although audio is input in real time, the HDV/DV stream output from the camera is not in real time.

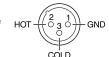
The timing gap between video and audio capture can be corrected. See "Capturing while Correcting the Synchronization Gap between Audio and Video" (p. 46) for details.

Preparations

- 1 Make preparations following steps 1–3 of "Preparations" (p. 11–12) above.
- 2 Connect the F-1 and the audio device.



- * To prevent malfunction and/or damage to other devices, always turn down the volume, and turn off the power on all devices before making any connections.
- * Use a balanced (XLR) type connector for the AUDIO IN connector. Please connect the device after verifying the wiring configuration. The figure at left shows the AUDIO IN connector wiring.



3 Set the switch on the side panel of the F-1.

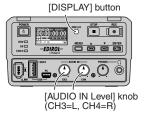
Use one of the following settings for the connected device.

Switch	When connecting a microphone	When connecting to a line input
[GAIN]	-20 dB or MIC	LINE
	Set to "-20 dB" to decrease microphone input sensitivity.	
[+48V]	Set to "ON" only when connecting a condenser microphone that requires phantom power.	OFF
[CH3/4]	ON	ON

* Supplying phantom power to a dynamic microphone may result in damage. Please thoroughly read the instruction manual for the device that you are using. When not using a condenser microphone requiring phantom power, please set the [+48V] switch to "OFF."

Capturing

- 1 Put the HDV/DV camera in "Camera Mode" and turn on the power.
- 2 Turn power on to the audio device.
- 3 Turn power on to the F-1.
- 4 Turn the [AUDIO IN Level] knob to adjust the input level of the audio.





When connecting a microphone	When connecting to the line input
Point the microphone at the audio source and adjust the input level with the [AUDIO IN Level] knob.	Increase the audio output level on the audio device. Adjust the input level with the [AUDIO IN Level] knob.

The audio input level can be checked with the Audio Level Meter on the Audio Level screen. The Home screen (two types) and Audio Level screen switch each time the [DISPLAY] button is pressed (p. 20).

To capture the highest quality audio, adjust so that the level meter is as high as you can get it without causing the clip lamp to light.

- * If you hear acoustic feedback (a squealing sound) while using the mic, try changing the direction of the mic, moving it away from the speakers, or lowering the speaker volume.
- 5 Press the [(REC)] button on the F-1 to start capturing video and audio.

Press the [■(STOP)] button to stop capture.

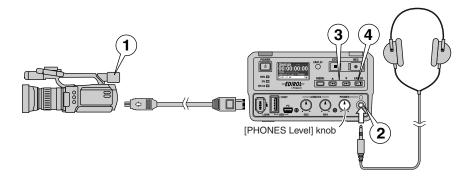
- * When the [CH3/4] switch is "ON," the time for continuous capture is limited to 6 hours and 45 minutes. When the time limit is reached, the capture stops automatically.
- * The captured audio is saved into the following audio file format.

Format	WAVE (BWF format)
Sampling Rate	48 kHz
Bit Rate	16 bit

The factory default setting is to create stereo WAV files. You can also create monaural WAV files for each channel. See "Setting Stereo/Monaural for WAV Files" (p. 47) for details.

- * To capture audio only, please do not connect anything to the i.LINK connector.
- * The timecode included in the HDV/DV stream is also recorded to the WAV file.
- See "Checking Captured Video and Audio" (p. 15) when checking on the captured video and audio.

Checking Captured Video and Audio



- 1 Put the HDV/DV camera in "Deck Mode" and turn on the power.
 - * "Deck Mode" may be called by another name, depending on the camera manufacturer.
- 2 To listen to the audio, connect headphones to the PHONES jack.

The captured audio is output from the PHONES jack. Before playback, turn down the headphone volume with the [PHONES Level] knob.

- * Audio that is embedded with the HDV/DV media is not output from the PHONES jack.
- 3 Select the material file to play back with the [► (▲)] [► (▼)] buttons.

The name of the currently selected material file is displayed on the Home screen.



Material file name

4 Press the [►/II (ENTER)] button on the F-1.

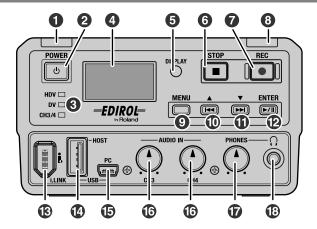
Playback starts. The video is displayed on the HDV/DV camera finder or display. To listen to the audio, adjust the headphone volume with the [PHONES Level] knob. Press the [■(STOP)] button to stop playback.

- * The timecode shown on the F-1's display does not match the timecode shown on the HDV/DV camera display. This is due to a video delay equal to the time for digital processing by the HDV/DV camera.
- When listening to the audio, there will be a delay between the video displayed on the HDV/DV camera display and the audio output from the PHONES jack.
 - This gap in output timing can be corrected by delaying the audio. See "Delaying Audio Output (Audio Delay)" (p. 48) for details.
- * Set the format of the HDV/DV camera so it matches the format of the material file to be played. If the formats do not match, then the stream cannot be played on the F-1.

There are also cameras that have a mode that automatically switches the HDV/DV format. Even if this mode is set, you may not be able to play the stream on the F-1.

Panel Descriptions

Front Panel



1 POWER Lamp (p. 23)

This lights when power is turned on.

② [((POWER)] Button (p. 23)

Turns power on or off.

3 Status Lamp

HDV Lamp	This lights when the device connected to the i.LINK connector is in HDV format.
DV Lamp	This lights when the device connected to the i.LINK connector is in DV format.
CH3/4 Lamp	This lights when the [CH3/4] switch on the side panel is set to "ON."

4 Display (p. 20)

This displays the F-1's operation status and menu screens.

[DISPLAY] Button (p. 20)

Switches the display between screens.

⑥ [■(STOP)] Button (p. 12, 14, 15)

Stops capture.

7 [●(REC)] Button (p. 12, 14, 15)

Starts the capture of the input HDV/DV stream and audio.

8 REC Lamp

This is illuminated during capture.

9 [MENU] Button (p. 27)

Shows the Menu screen on the display.

The Menu screen switches between hide/show each time the [MENU] button is pressed.

10 [► (▲)] Button

Current Screen	Operation
Home Screen Audio Level Screen	Selects the previous file in the same folder.
Menu Screen	Selects the previous menu item. /Changes the value of the setting.

(1) [►► (▼)] Button

Current Screen	Operation
Home Screen Audio Level Screen	Selects the next file in the same folder.
Menu Screen	Selects the next menu item. /Changes the value of the setting.

[►/II (ENTER)] Button

Current Screen	Operation
Home Screen	Starts playback. It can also pause playback.
Audio Level Screen	
Menu Screen	Sets the selected menu item or changed value.

(i.LINK Connector (p. 11)

Accepts connection of an HDV or DV device.

USB (HOST) Connector (p. 40, 44)

Accepts connection of a mouse or a USB device supporting the USB mass storage class.

USB (PC) Connector (p. 29)

Connect from here to the USB port on a PC using the included USB cable.

(6) [AUDIO IN Level] Knob (CH3, CH4) (p. 15)

This adjusts the input level of audio input to the AUDIO IN connector (3CH,4CH).

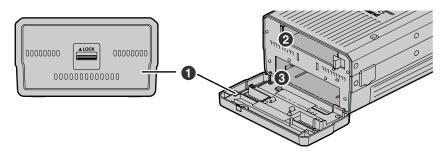
[PHONES Level] Knob (p. 15)

This adjusts the volume of the output from the PHONES jack.

(B) PHONES (headphones) Jack (p. 15)

This connects the headphones. This monitors the audio input to the AUDIO IN connector (3CH,4CH).

Rear Panel



Rear Cover

Slide the lock in the center of the cover down when opening or closing the rear cover.

- * Do not open the rear cover unless exchanging the battery case or removable storage.
- * Capture cannot begin if the rear cover is not completely closed.

Battery Case Slot (p. 25)

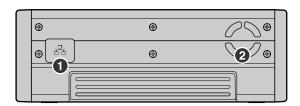
The battery case is inserted in this slot.

Removable Storage Slot (p. 37)

The removable storage drive is inserted in this slot.

* Only the F-1's removable storage "F1-HD120" can be inserted.

Side Panel



1 LAN Connector (p. 34)

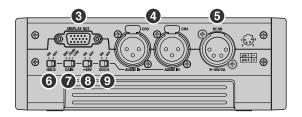
This is used to connect to a PC via a network using a LAN cable. F-1 materials can be copied to a PC connected to the network.

2 Cooling Fan Vent

The internal cooling fan regulates temperature increases inside the F-1. Internal heat is exhausted through here.

* Do not block the cooling fan vent. If the exhaust vent is blocked, the internal temperature will rise and heat damage may occur.

Side Panel (continued)



3 DISPLAY OUT Connector (p. 44)

This connector outputs an RGB signal (fixed SVGA format) The data in the F-1 (folder or file) can be viewed when a VGA display is connected.

4 AUDIO IN Connector (CH3, CH4); XLR-type (p. 13)

Audio is input here. Accepts connection of audio devices and microphones.

Volume is adjusted with the [AUDIO IN Level] knob (p. 17).

5 Power Connector (p. 23)

This connects to the included AC adaptor using the included power conversion cable.

6 [HOLD] Switch

Sets the [HOLD] switch to the "ON" position so only the following buttons cannot be used and to help prevent accidental operations.

- [(STOP)]
- [(REC)]
- [MENU]
- [() (POWER)] (*1)

- [► (▲)] [► (▼)]
- [►/|| (ENTER)]
- *1 Only when power is on. If the [\circlearrowleft (POWER)] button is pressed while power is off, the power is turned on.

[GAIN] Switch (p. 13)

Sets the gain of the audio input from the AUDIO IN connector.

MIC	This is set when using microphone input. You can set to this "-20 dB" to decrease micro-	l
-20dB	phone input sensitivity. The audio input from the microphone is then decreased -20 dB.	
LINE	This is set when using line input.	1

(Phantom Power) Switch (p. 13)

Turns the phantom power supplied to the AUDIO IN connector on/off. Set to "ON" when connecting a condenser microphone that requires phantom power.

* Supplying phantom power to a dynamic microphone may result in damage. Please thoroughly read the instruction manual for the device that you are using. When not using a condenser microphone requiring phantom power, please set the [+48V] switch to "OFF."

[CH3/4] Switch (p. 13)

Set this to "ON" when capturing audio input to the AUDIO IN connectors (3CH/4CH).

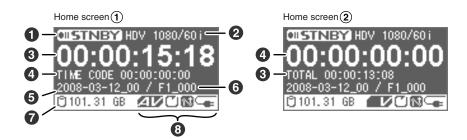
Display

This shows various information and messages, such as the current status or function settings, according to the operation. The display shows the following three screens.

Displayed Screen	Operation
Home Screen Audio Level Screen	The screens change as follows each time the [DISPLAY] button is pressed.
	Home screen 1 — Home screen 2 — Audio Level screen
	<u></u>
	When Home screen ① changes to Home screen ②, the timecode and total time display locations are exchanged.
Menu Screen (p. 27)	This screen switches between hide/show each time the [MENU] button is pressed.

^{*} The Menu screen cannot be displayed during capture.

Home Screen



Status

This indicates the current status.

● REC	During capture.
(#STNBY	During standby.
PLAY	During playback.
(MPAUSE)	During playback pause.

2 Video Format

During Capture	Displays the video format of the stream input from the i.LINK connector.
During Playback	Displays the video format of the material being played.

Total Time

During Capture	Displays the elapsed time for capture.
During Standby/ Playback	Displays the length of the material currently selected.

4 Timecode

During Capture/ Standby	During Standby/Playback, displays the video format of the stream being input from the i.LINK connector.
	* Displays "::-" when no timecode is included in the input signal from the i.LINK connector.
During Playback	Displays the timecode of the material being played.

5 Folder Name (p. 28, 35)

Displays the currently selected folder name. Material files are saved in the folder.

6 File Name (p. 28, 36)

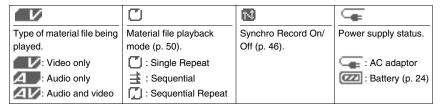
During Capture	Displays the file name of the material created after capture completes.
During Standby/ Playback	Displays the file name of the material currently selected.

Remaining Space in Removable Storage

Displays the remaining free space on the removable storage mounted on the F-1 unit.

* A low memory warning message is displayed when the remaining space on the removable storage falls too low. If capture continues with low memory, the capture will stop eventually.

8 Icon Display



Audio Level Screen



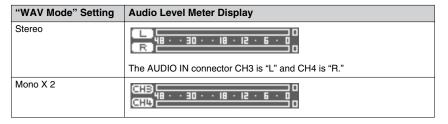
9 Total Time

During Capture	Displays the elapsed time for capture.
During Standby/ Playback	Displays the length of the material currently selected.

Audio Level Meter

Displays the level of audio input to the AUDIO IN connector. The audio level is adjusted with the [AUDIO IN Level] knob on the front panel.

The level meter display is different depending on the menu "WAV Mode" setting (p. 47).



Basic Operations

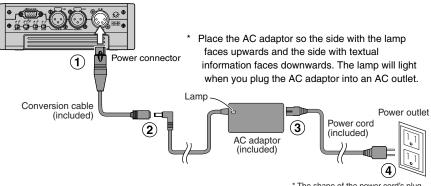
Turning Power On/Off

Turning Power On

* Batteries can be used as backup power. If batteries are used, even if power from the AC adaptor is cut off by a power outage, the capture process will continue.

See "Using Batteries" (p. 24) for details.

1 Connect the AC adaptor.



* The shape of the power cord's plug varies depending on the country.

2 Press the [(b) (POWER)] button on the front panel to turn on power.

The POWER lamp lights when power is turned on. Please wait until the Home screen is displayed.

* The F-1 is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

Turning Power Off

- 1 Press the [() (POWER)] button on the front panel.
- 2 When the "Power off." message is displayed, press the [(b) (POWER)] button again.

To turn off power, press the [\circlearrowleft (POWER)] button within five seconds of the message display.

Using Batteries

Batteries can be used as a backup power source. Even if power from the AC adaptor is cut off by a power outage, power can be supplied from the batteries.

* When there is no battery power to the F-1, the date/time settings can be saved for up to about thirty days. If batteries are inserted as a backup power supply, the date/time settings can be maintained for a longer period.

Regarding the Batteries

Batteries that can be used

AA Nickel metal hydride batteries, AA Oxyride batteries, AA Alkaline batteries

* The F-1 cannot recharge nickel metal hydride batteries. Please use a separately purchased battery charger.

Battery Life

Battery Type	Useable Time (During Continuous Use)
Nickel Metal Hydride Batteries	About 2 hours
Oxyride Batteries	About 45 minutes
Alkaline Batteries	About 30 minutes (Emergency use)

^{*} Battery lifetimes are estimates. The actual lifetime may vary depending on the frequency of use and use environment.

Remaining Battery Power Indication

Shows the remaining battery power.

When the remaining battery power indication shows " []," the batteries are depleted. Please replace the batteries as soon as possible. If you continue use when there is little power left in the batteries, the power will eventually be cut off.



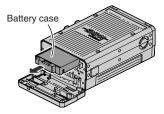
* Please use the Battery Remaining Power Display as a guide.

Cautions Regarding Batteries

- * Please do not mix new and used batteries or different types of batteries.
- * If the unit will not be used for several months, please remove the batteries to prevent battery leakage.

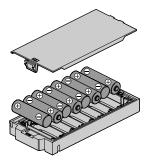
Inserting the Batteries

- 1 Press the [\bigcirc (POWER)] button two times to turn on power.
- 2 Unlock the rear cover, then open it.
- 3 Remove the battery case.

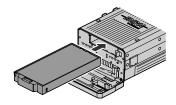


4 Insert eight batteries into the battery case.

Please insert the batteries as shown in the figure, taking care to orient the positive and negative terminals correctly.



5 Replace the battery case into the F-1.



NOTE

Do not allow any foreign metal objects to touch the terminals of the battery case. Doing so may cause the batteries to short and the battery case may overheat or catch fire.

- 6 Close the rear cover, then lock it.
- 7 Set the battery type.

Select the type of battery used from the Menu screen. See "Setting Battery Type" on the next page for details.

Setting Battery Type

Select the type of battery to be used.

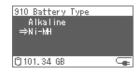
- * Incorrect battery settings can cause a problem in operation due to voltage drops. Please check the batteries and make the proper settings.
- 1 Press the [MENU] button to access the Menu screen, and select the "Battery Type."

Select the "Battery Type" with the [$\bowtie \triangleleft (\triangle)$] [$\bowtie \bowtie (\blacktriangledown)$] buttons, and then press the [$\bowtie \nearrow \bowtie (ENTER)$] button.

Select the battery type with the [► (♠)] [► (▼)] buttons.

Value	Description
Alkaline	Alkaline batteries, Oxyride batteries
Ni-MH	Nickel Metal Hydride Batteries





3 Verify by pressing the [►/II (ENTER)] button.

Operating the Menu

The Menu screen appears when the [MENU] button is pressed. Various F-1 settings, such as capture and playback settings and date/time settings, are done from the Menu screen.

- * The Menu screen cannot be displayed during capture.
- * See "Menu List" (p. 54) for details on the menu items.

Displaying the Menu Screen and Selecting Menu Items

- 1 Press the [MENU] button to access the Menu screen.

 The Menu screen switches between hide/show each time the [MENU] button is pressed.
- 2 Select a menu item with the [I◄◄ (▲)] [►►I (▼)] buttons.
- 3 Verify a selected menu item by pressing the [▶/II (ENTER)] button.

When the menu has many layers, repeat steps 2-3.

Changing Settings

- The value of a setting is changed with the [► (▲)] [► (▼)] buttons.
- 2 Confirm the value you wish to set by pressing the [▶/|| (ENTER)] button.

Saving Changed Content

When the value for a setting is confirmed by pressing the [**►/II**(ENTER)] button, the setting is saved in the F-1's internal memory.

If you wish to cancel the changes you've made, press the [MENU] button during menu operations. The settings you were in the process of making are discarded, and you're returned to the Home screen or the Audio Level screen.



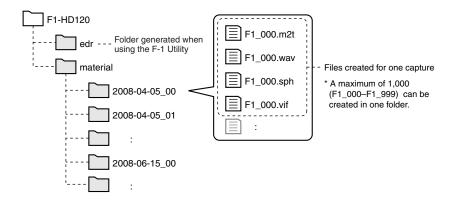


Connecting to a PC

Connect to a PC with the included USB cable, and material captured with the F-1 (HDV video, DV video, or audio) can be imported.

F-1 Folder Structure

When the F-1 is connected to a PC, the F-1's removable drive is recognized as an external drive (removable disk). The folder structure of the removable storage is shown on the PC as follows.



Subfolders in the "material" folder

The F-1 creates folders in the "material" folder and saves materials in them.

Data in the folders

When capture is performed, four types of files, "*.m2t or *.dv," "*.wav," "*.sph," and "*.vif," are created in the folder.

*.m2t	Video file in MPEG-2 TS format that is created when capturing in HDV.
*.dv	Video file in DV format that is created when capturing in DV.
*.wav	Audio file in WAV format. When the "WAV Mode" is set to "Mono X 2" (p. 47), there are two monaural WAV files created. *c3.wav: Monaural WAV file for CH3 *c4.wav: Monaural WAV file for CH4
*.sph *.vif	This file is needed to play back material on the F-1. This file does not need to be copied when using the "*.m2t" and "*.wav" files on non-linear software.

- * Copy with the "F-1 Utility" (p. 32) to manage materials without worrying about file types.
- * See "Arranging Materials" (p. 35) for information on managing folders and materials.
- * *.dv files cannot be browsed or edited on a PC that does not have QuickTime™ installed. Please download the QuickTime™ application from the Apple website.

http://www.apple.com/quicktime/download/

Copying F-1 Materials to a PC

Connecting the F-1 to a PC

Copies F-1 materials to a PC connected via USB.

NOTE

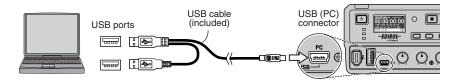
- Please use the included AC adaptor when connecting with a PC.
- Please do not format the F-1's removable storage with the PC. The removable storage may become unusable.

Supported OS

Windows XP/Windows Vista (Windows) Mac OS X (Mac)

- 1 Turn power on to the F-1.
- 2 Connect as shown in the following figure using the included USB cable.

The included USB cable has two connectors. When connecting to a PC, please connect both USB connectors to USB ports on the PC.



- 3 "Connect PC?" Once this message is displayed, select the "Yes" with the [► (▲)] [► (▼)] buttons, and then press the [►/|| (ENTER)] button.
- 4 After the F-1 is detected by the PC, copy the necessary materials.

After the F-1 is detected by the PC, the screen at right is shown. The detection can take several seconds.

Detection from the PC is as follows. After reviewing "F-1 Folder Structure" on the previous page, please copy the necessary files to the PC.



Windows	When checked with My Computer or from the Explorer, the name is shown as "F1-HD120."
Мас	Shown on the desktop with the name "F1-HD120."

* Mac

Because the F-1's removable storage is formatted in NTFS format, files and folders cannot be deleted from the Mac.

Connecting the Removable Storage to a PC

F-1 materials can be copied to a PC by connecting the F-1's removable storage directly to the PC using a USB cable.

NOTE

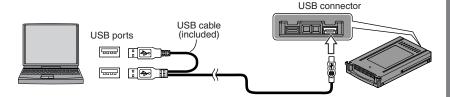
Please do not format the F-1's removable storage with the PC. The removable storage may become unusable.

1 Connect as shown in the following figure using the included USB cable.

The included USB cable has two connectors. When connecting to a PC, please connect both USB connectors to USB ports on the PC.

NOTE

If only one of the USB connectors is used to connect to the PC, the removable storage may be damaged because the power supplied from the PC may be inadequate, depending on the PC type.



- 2 After the removable storage is recognized by the PC, copy the necessary materials.
- 3 Disconnect from the PC.

See "Disconnecting the PC" (p. 31) for how to disconnect.

Disconnecting the PC

Disconnects the F-1 and PC connected by USB. Follow the procedure below to disconnect, and then unplug the USB cable.

NOTE

Please do not turn F-1 power off or unplug the USB cable while the F-1 and PC are connected.

Windows

- 1 Close all applications and windows, such as Explorer, that reference the F-1's removable storage.
 - * If an application or window, such as Explorer, is referencing the F-1's removable storage, then an error will occur and you will not be able to disconnect properly.
- 2 Double-click on the "Safely Remove Hardware" icon () in the task tray.
 The Safely Remove Hardware dialog box is shown.
- 3 Select the item indicating the F-1 from the Hardware Devices shown.
 Please select "USB Mass Storage Device."
- 4 Click on [Stop] in the dialog box.
- When the Stop a Hardware Device dialog box appears, select the item indicating the F-1 and click on [OK].
- 6 When the following message is displayed, unplug the USB cable connecting the F-1 and PC

Windows XP	The USB Mass Storage Device can now be safely removed from the system.	
Windows Vista	This device can now be safely removed from the computer.	1

When the USB cable is unplugged, the Home screen is shown on the F-1's display.

Mac

- 1 Drag the F-1's icon displayed on the desktop to the Dock.

 When dragging to the Trash icon that is normally shown on the right of the Dock, the Trash icon changes to and the connection can be terminated.
- 2 The F-1's icon disappears from the desktop; unplug the USB cable connecting the F-1 and PC.

When the USB cable is unplugged, the Home screen is shown on the F-1's display.

The "F-1 Utility"

The "F-1 Utility" is an application that allows file management, such as browsing F-1 materials on the PC, batch copying, or changing folder or file names.

Please download it from the Roland Systems Group website.

http://rolandsystemsgroup.net

- * Please carefully read the instruction manual included with the "F-1 Utility" before using the "F-1 Utility."
- * The "F-1 Utility" will not run if an F-1 or removable storage (F1-HD120) is not connected to the PC. See "Connecting the F-1 to a PC" (p. 29) for connection details.
- * When the "F-1 Utility" is installed, the "F-1 Net Control" (p. 34) is installed at the same time.

Recommended Operating Environment

Supported OS	Windows XP SP2 or later, Windows Vista SP1 or later
CPU	Core 2 Duo 2 GHz or higher
Memory	2 GB or more
Communication Port	USB Ports
Display Resolution	1024 x 768 pixels or higher

^{* &}quot;F-1 Utility" and "F-1 Net Control" are only for Windows Vista/XP. There is no Mac version available.

Copying F-1 Materials over a Network

Here's how to copy F-1 materials to a PC connected to the network.

Cautions Regarding File Sharing

The F-1 cannot have a password set for "File Sharing." For this reason, please do not use the PC file sharing feature on a network environment where unexpected access to the internet may occur.

Network Settings

1 Press the [MENU] button to access the Menu screen, and select the "Network Setting."

Select the "Network Setting" with the [◄◄ (♠)] [▶►। (▼)] buttons, and then press the [►/II (ENTER)] button.

2 Select the following items with the [I← (▲)] [►►I (▼)] buttons and then configure them.

After configuration, confirm each setting with the [>/II (ENTER)] button.

- * "Host Name" cannot be changed.
- 1 Select the "TCP/IP" configuration method.

Value	Description
Manual	When the IP address used for the network is specified by the network administrator.
DHCP	When the IP address is assigned automatically by the router. When set to "DHCP," the setting in step 2- ② is unnecessary.

② Input the "IP Address," "Subnet mask," and "Gateway" addresses.

Please check with the network administrator about each of these addresses.

(3) Set the "Port Number."

Set this when remotely controlling the F-1 from a PC.

Set the same number as the number set on the "F-1 Net Control" remote control software (p. 34).

The port number is selected from "50000" to "50003."

Please check with the network administrator for the port that is used





Network Connection

1 Attach the included ferrite cores to both ends of the LAN cable

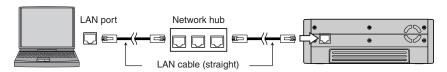
Insert the LAN cable in the ferrite core, and close and press both halves of the ferrite core together until you hear a click.



- * Please attach the ferrite core before using the LAN cable.
- * Use a straight cable for the LAN cable.

2 Connect as shown in the following figure using the LAN cable.

* We recommend connecting via a network hub for stable operation.



Making a network connection from a PC to the F-1.

The connection is made using the F-1's host name. Verify the host name with "Network Setting" \rightarrow "Check Host Name" from the menu.

- * See the PC instruction manual for details on how to connect to the network.
- * The F-1's workgroup name is "WORKGROUP."
- * With Mac OS X, you can access with "smb://F-1 Host Name/."

4 Copy F-1 materials to the PC.

After reviewing "F-1 Folder Structure" (p. 28), please copy the necessary files to the PC.

* Please do not unplug the LAN cable or turn off the F-1 while files are being copied (transferred). Failure to do so may result in the files being corrupted.

Remotely Controlling the F-1 from the PC (F-1 Net Control)

"F-1 Net Control" is an application that allows you to remotely control the F-1 from a PC via a network.

When the "F-1 Utility" (p. 32) is installed, the "F-1 Net Control" is installed at the same time.

- * See "The F-1 Utility" (p. 32) for details on the recommended PC operating environment.
- * Please carefully read the instruction manual included with the "F-1 Utility" before using the "F-1 Net Control."

Advanced Use

Arranging Materials

Regarding Folders

The files of captured material are saved in "folders." When shipped, one folder has already been created. Folders can be freely created, so use them to arrange the material files.

Creating folders

1 Press the [MENU] button to access the Menu screen, and select the "Create New Folder."

Select the "Create New Folder" with the [$\blacktriangleright \blacktriangleleft$ (\blacktriangle)] [$\blacktriangleright \blacktriangleright \blacktriangleright$] (\blacktriangledown)] buttons, and then press the [$\blacktriangleright \land \blacksquare$ (ENTER)] button.

A folder is created.

The folder name is the date when it was created.

(Example) "2008-04-20_01" (April 20, 2008)

002 Audio Sync 005 Delete File 010 Select Folder 011 Create New Folder 012 Delete Folder ①101.34 GB

Selecting folders

1 Press the [MENU] button to access the Menu screen, and select the "Select Folder."

Select the "Select Folder" with the [$\mathbb{I} \blacktriangleleft (A)$] [$\blacktriangleright \blacktriangleright$ | (\blacktriangledown)] buttons, and then press the [$\blacktriangleright \land$ | II (ENTER)] button.

- 002 Audio Sync
 005 Delete File
 010 Select Folder
 011 Create New Folder
 012 Delete Folder
 © 101.34 GB
- 2 Select a folder with the [► (▲)] [► (▼)] buttons.
- 3 Confirm the choice by pressing the [►/II (ENTER)] button.

The folder changes.

Deleting folders

1 Press the [MENU] button to access the Menu screen, and select the "Delete Folder."

Select the "Delete Folder" with the [$\blacktriangleright \blacktriangleleft$ (\blacktriangle)] [$\blacktriangleright \blacktriangleright \blacktriangleright$ (\blacktriangledown)] buttons, and then press the [$\blacktriangleright \land$ \blacksquare (ENTER)] button.

- 2 Select the "Delete" with the [◄◄ (▲)] [►► (▼)] buttons.
- 3 Confirm the choice by pressing the [►/II (ENTER)] button.

The folder is deleted.

If all the folders are deleted, a new folder is automatically created.



Deleting Material Files

Deletes the currently selected material files.

1 Select the material to delete.

With the Home screen or Audio Level screen shown, select the material to be deleted with the $[\bowtie \blacktriangleleft (\blacktriangle)] [\bowtie \bowtie (\blacktriangledown)]$ buttons.

The name of the currently selected material file is displayed on the Home screen.

2 Press the [MENU] button to access the Menu screen, and select the "Delete File."

Select the "Delete File" with the [$\blacktriangle \blacktriangleleft (\blacktriangle)$] [$\blacktriangleright \blacktriangleright \blacktriangleright (\blacktriangledown)$] buttons, and then press the [$\blacktriangleright / \blacksquare (ENTER)$] button.

- 3 Select the "Delete" with the [◄◄ (♠)] [▶► (♥)] buttons.
- 4 Confirm the choice by pressing the [►/II (ENTER)] button.

The material file is deleted.



Material file name



Managing the Removable Storage

Inserting/Removing

The removable storage (included) is required to perform capture with the F-1.

The removable storage can be exchanged with the separately available removable storage (F1-HD120).

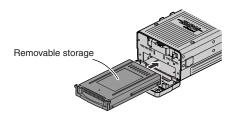
NOTE

Please turn off power before removing or inserting the removable storage. Failure to do so may result in damage to the contents of the removable storage.

Inserting

- 1 Press the [\oplus (POWER)] button two times to turn off power.
- 2 Unlock the rear cover, then open it.
- With the grooved side facing up, insert the removable storage.

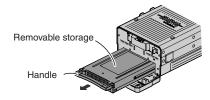
 With the handle lowered, firmly insert the removable storage until it reaches the back.



4 Close the rear cover, then lock it.

Removing

- 1 Press the [\bigcirc (POWER)] button two times to turn off power.
- 2 Unlock the rear cover, then open it.
- 3 Grasp the handle of the removable storage, and gently pull it out.



4 Close the rear cover, then lock it.

Deleting All Data / Initializing (Formatting)

If the same removable storage is used for capture several times, the material files may become fragmented, and capture may not perform properly. To reduce the impact due to fragmentation, please initialize or delete all data on the removable storage.

NOTE

- · When initializing or deleting all data, please be sure to employ the included AC adaptor.
- While initializing or deleting all data, please do not turn off power. The removable storage may become damaged.
- After initialization or deleting all data, all the data stored on the removable storage is erased.
 Please back up important data on a PC or USB mass storage device (p. 29, 33, 40, 41).
- Please do not format the F-1's removable storage with the PC. The removable storage may become unusable.

Deleting All Data

- * When all data on the removable storage is deleted, a new folder is automatically created.
- 1 Press the [MENU] button to access the Menu screen, and select the "Disk Utility."

Select the "Disk Utility" with the [◄◄ (♠)] [▶► (♥)] buttons, and then press the [►/II(ENTER)] button.

2 Select the "Clear Int. Drive."

Select the "Clear Int. Drive." with the [◄◄ (♠)] [▶► (▼)] buttons, and then press the [▶/||(ENTER)] button.

- 3 Select the "Yes" with the [◄◄ (♠)] [►► (♥)] buttons.
- 4 Confirm the choice by pressing the [►/II (ENTER)] button.

All data is deleted. Please wait.





Initializing (Formatting)

Initializes (formats) the removable storage in NTFS format.

- * When the removable storage is initialized, a new folder is automatically created.
- 1 Press the [MENU] button to access the Menu screen, and select the "Disk Utility."

Select the "Disk Utility" with the [◄ (♠)] [▶ (♥)] buttons, and then press the [▶/II(ENTER)] button.

2 Select the "Format Int. Drive."

Select the "Format Int. Drive" with the [$\bowtie \triangleleft (\triangle)$] [$\bowtie \bowtie \bowtie (\blacktriangledown)$] buttons, and then press the [$\bowtie \bowtie \bowtie \bowtie (ENTER)$] button.

- 3 Select the "Yes" with the [◄◄ (▲)] [►► (▼)] buttons.
- 4 Confirm the choice by pressing the [►/II (ENTER)] button.

Initialization begins. Initialization takes some time to complete, so please do not turn off the power.

When using the included removable storage (F1-HD120), initialization takes about 50 minutes to complete.





Scanning (Internal Drive Check)

Scans for corrupted files on the removable storage and repairs them.

When the internal drive check is performed, files that have problems are repaired, and the frequency of errors can be reduced.

1 Press the [MENU] button to access the Menu screen, and select the "Disk Utility."

Select the "Disk Utility" with the [◄ (♠)] [►► (♥)] buttons, and then press the [►/II(ENTER)] button.

2 Select the "Check Int. Drive."

Select the "Check Int. Drive" with the [◄◄ (♠)] [▶► (♥)] buttons, and then press the [►/II (ENTER)] button.

- 3 Select the "Yes" with the [◄◄ (▲)] [►► (▼)] buttons.
- 4 Confirm the choice by pressing the [►/II (ENTER)] button.

The check of the removable drive begins. Please wait.

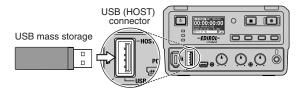




Using USB Mass Storage

Connect a USB mass storage device to the USB (HOST) connector and copy F-1 materials.

Please initialize (format) the USB mass storage device on the F-1 before using it. See "Initializing (Formatting)" (p. 42) for the procedures.



* If the USB mass storage device has multiple partitions, the materials are copied to the partition with the drive number that comes first

Backing Up All Material Files

Back up (copy) all F-1 material files to a USB mass storage device.

- * The "material" folder in the removable storage is backed up. See "F-1 Folder Structure" (p. 28) for details.
- Connect the USB mass storage device to the USB (HOST) connector.
- 2 Press the [MENU] button to access the Menu screen, and select the "Disk Utility."

Select the "Disk Utility" with the [◄◄ (♠)] [▶► (▼)] buttons, and then press the [►/II(ENTER)] button.

3 Select the "Backup to USB."

Select the "Backup to USB" with the [\bowtie (\blacktriangle)] [\triangleright | (\blacktriangledown)] buttons, and then press the [\triangleright / || (ENTER)] button.

- 4 Select the "Yes" with the [◄◄ (♠)] [►► (♥)] buttons.
- 5 Confirm the choice by pressing the [►/II (ENTER)] button.

Backup starts. The backup may take a while depending on the size of the material files.

The material files ("material" folder) are stored in the root directory of the USB mass storage device.





Copying the Currently Selected Material Files

Copies the currently selected material files (*.m2t / *.dv, *.wav) to the USB mass storage device.

- Connect the USB mass storage device to the USB (HOST) connector.
- 2 Press the [MENU] button to access the Menu screen, and select the "Disk Utility."

Select the "Disk Utility" with the [$\blacktriangle \blacktriangleleft$ (\blacktriangle)] [$\blacktriangleright \blacktriangleright \blacktriangleright$ (\blacktriangledown)] buttons, and then press the [$\blacktriangleright \land$ II (ENTER)] button.

3 Select the "Copy File to USB."

Select the "Copy File to USB" with the [$\blacktriangle \blacktriangleleft (\blacktriangle)$] [$\blacktriangleright \blacktriangleright \blacktriangleright (\blacktriangledown)$] buttons, and then press the [$\blacktriangleright \land II$ (ENTER)] button.

- 4 Select the "Yes" with the [◄◄ (▲)] [►► (▼)] buttons.
- 5 Confirm the choice by pressing the [►/II (ENTER)] button.

Copy starts. This may take a while depending on the size of the material files.

The material files are stored in the root directory of the USB mass storage device.





Initializing (Formatting)

Initializes (formats) the USB mass storage device in NTFS format.

* Mac

USB mass storage devices that have been initialized in NTFS format are read-only on Macs.

* Initialization may not be possible depending on the USB mass storage device.

NOTE

- Please do not turn off power during initialization. The USB mass storage device may become damaged.
- When initialized, all the data stored on the USB mass storage device is deleted. Any data lost due to initialization cannot be recovered. Please be sure before performing initialization.
- 1 Press the [MENU] button to access the Menu screen, and select the "Disk Utility."

Select the "Disk Utility" with the [◄◄ (♠)] [▶► (♥)] buttons, and then press the [►/II (ENTER)] button.

2 Select the "Format USB."

Select the "Format USB" with the [\blacktriangleleft (\blacktriangle)] [$\blacktriangleright \blacktriangleright$ (\blacktriangledown)] buttons, and then press the [$\blacktriangleright \land$ II (ENTER)] button.

- 3 Select the "Yes" with the [◄◄ (▲)] [►► (▼)] buttons.
- 4 Confirm the choice by pressing the [►/II (ENTER)] button.

Initialization begins. Initialization takes some time to complete, so please do not turn off the power.





Scanning (USB Check)

Scans for corrupted files on the USB mass storage device and repairs them.

When the USB check is performed, files that have problems are repaired, and the frequency of errors can be reduced.

1 Press the [MENU] button to access the Menu screen, and select the "Disk Utility."

Select the "Disk Utility" with the [◄◄ (♠)] [▶► (▼)] buttons, and then press the [►/II(ENTER)] button.

2 Select the "Check USB."

Select the "Check USB" with the [$\bowtie \triangleleft (\triangle)$] [$\bowtie \bowtie (\triangledown)$] buttons, and then press the [$\bowtie \bowtie (ENTER)$] button.

- 3 Select the "Yes" with the [◄◄ (▲)] [►► (▼)] buttons.
- 4 Confirm the choice by pressing the [►/II (ENTER)] button.

The check of the USB mass storage device begins. Please wait.



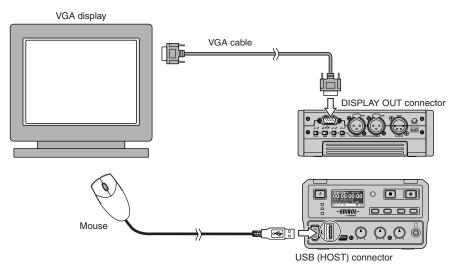


Operating by Connecting a VGA Display and Mouse

If a VGA display and mouse are connected to the F-1, basic operations can be performed while still in the field.

Connecting

1 Connect the VGA display/mouse to the F-1 as shown in the figure below The screen and mouse pointer are shown on the VGA display.



* Please use a VGA display that supports "analog RGB input, 800 x 600 resolution."

VGA Screen Display



Folder List

Shows a list of folders.

Pile List

Shows a list of files in the currently selected folder.

Files can be displayed as file names or as thumbnails. The way they're displayed is changed with the following operation.

Click on the radio button ([Name list]/[Thumbnail list]) in the upper-right of the VGA Screen to change the display.		
Change the setting for the menu item "File List (VGA)" to change the display.		
Value	Description	
Name	Displays file names in a list.	
Thumbnail	Displays files as thumbnails.	
	VGA Screen to Change the set Value Name	

For File Name display:



File name Material length Video format

Displayed when a video-format WAV file is created.

WAV.Stereo: Stereo WAV file
 WAV.MonoX2: Monaural WAV files

3 F-1 Panel

Displays the F-1 panel.

4 File Information

Displays the information of the currently selected file.

Folder	Folder save location
File	File name
Length	Material length
(Format information, etc.)	Displayed when a video-format WAV file is created. • WAV.Stereo: Stereo WAV file Video format WAV files

6 Position Bar

Shows the relative file read position.

* If you drag the position bar during playback, the audio will be muted. To resume output of the audio, first stop the playback, then restart playback from the beginning of the file.

Configuration Settings

Starting Capture by Linking to a Camera

You can synchronize the recording of the F-1 with a connected camera (Synchro Record Feature).

- * For material files created by using the Synchro Record feature, the capture starts a few seconds before the camera begins recording. This is because when the "Record Start Signal" is output from the camera, the F-1 begins capture immediately, but the camera begins recording a few seconds later. The timing for ending the recording is the same.
- 1 Press the [MENU] button to access the Menu screen, and select the "Sync Rec."

Select the "Sync Rec" with the [$\blacktriangle \blacktriangleleft (\blacktriangle)$] [$\blacktriangleright \blacktriangleright \blacktriangleright (\blacktriangledown)$] buttons, and then press the [$\blacktriangleright \land II$ (ENTER)] button.

2 Select the "Sync" with the [◄◄ (▲)] [►► (▼)] buttons.

Value	Description
Disable	The Synchro Record Feature is turned off.
Sync	The Synchro Record Feature is turned on. The start of capture is linked to a camera.





3 Verify by pressing the [►/|| (ENTER)] button.

When the Synchro Record Feature is on, the Synchro Record Icon ($\fbox{1}$) is shown at the bottom of the Home screen.

When the F-1 [■ (STOP)] button is pressed during Synchro Recording, capture is stopped. At the same time, the "Sync Rec" setting is changed to "Disable."

Capturing while Correcting the Synchronization Gap between Audio and Video

By setting a delay for audio to be captured, you can correct the synchronization gap between audio and video at the time of capture.

- * Depending on the camera used, the synchronization gap may differ for each capture, so the desired results of the correction may not be obtained.
- 1 Press the [MENU] button to access the Menu screen, and select the "Audio Sync."

2 Select the audio delay with the [⋈ (▲)] [►► (▼)] buttons.

Value	Description
0–30	Larger numbers indicate a longer audio delay.

3 Verify by pressing the [►/|| (ENTER)] button.





Setting Peak Hold for the Audio Level Meter

The Audio Level Meter on the Audio Level screen can display a temporary hold on the peak level (Peak Hold Feature).

When the Peak Hold Feature is used, you can easily check the maximum audio level input from the AUDIO IN connector.

1 Press the [MENU] button to access the Menu screen, and select the "Peak Hold."

Select the "Peak Hold" with the [$\blacktriangle \blacktriangleleft (\blacktriangle)$] [$\blacktriangleright \blacktriangleright (\blacktriangledown)$] buttons, and then press the [$\blacktriangleright / \blacksquare (ENTER)$] button.

2 Select the "ON" with the [◄◄ (▲)] [►► (▼)] buttons.

Value	Description
OFF	Does not hold the peak.
ON	Holds the peak.

3 Verify by pressing the [►/II (ENTER)] button.

	Disp LED	lay Timer	
830	Peak	Hold	
		List(VGA) Power OFF	
010	1.35	GB	



Setting Stereo/Monaural for WAV Files

When audio is captured (p. 14), a WAV file is created. The number of channels of the created WAV file can be set to stereo or monaural.

1 Press the [MENU] button to access the Menu screen, and select the "WAV Mode."

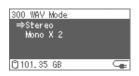
Select the "WAV Mode" with the [\bowtie (\blacktriangle)] [\bowtie (\blacktriangledown)] buttons, and then press the [\blacktriangleright / \parallel (ENTER)] button.

2 Select the number of channels for the WAV file with the [I ← (▲)] [►►I (▼)] buttons.

Value	Description
Stereo	Creates a stereo WAV file with an L and R channel for the two channels.
	The AUDIO IN connector CH3 is L and CH4 is R.
Mono X 2	Creates monaural WAV files for each channel.

3 Verify by pressing the [►/|| (ENTER)] button.





Delaying Audio Output (Audio Delay)

When video that was captured with a connected HDV/DV camera is played back, a delay occurs for the video because of the processing time. When matched to captured audio, the timing of the output is slightly off because the audio is output before the video.

By delaying the audio output, the output timing gap between audio and video can be corrected.

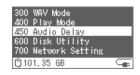
1 Press the [MENU] button to access the Menu screen, and select the "Audio Delay."

Select the "Audio Delay" with the [\bowtie (\blacktriangle)] [\leadsto (\blacktriangledown)] buttons, and then press the [\blacktriangleright /II(ENTER)] button.

Select the audio delay time with the [► (▲)] [► (▼)] button.

Value	Description
0–999	Larger values mean longer audio delay times.

When the [►/II (ENTER)] button is pressed with the cursor on the first digit, the delay time is set.





Setting the Date and Time

Sets the internal clock. This is used as the date and time for when the capture material file is created.

- * When there is no battery power to the F-1, the date/time settings can be saved for up to about thirty days. If batteries are inserted as a backup power supply, the date/time settings can be maintained for a longer period.
- 1 Press the [MENU] button to access the Menu screen, and select the "Set Time & Date."

Select the "Set Time & Date" with the [$\blacktriangleleft (\blacktriangle)$] [$\blacktriangleright \blacktriangleright$ (\blacktriangledown)] buttons, and then press the [$\blacktriangleright \land$ II (ENTER)] button.

2 Set the date and time with the [I◄◄ (▲)] [►►I (▼)] buttons.

Set the year, month, date, hour, minute, and second.

Set the "Year" with the $[\bowtie (\blacktriangle)] [\bowtie (\blacktriangledown)]$ buttons.

After verifying with the [>/II (ENTER)] button, the cursor moves to the "Month" position. Set the month, date, hour, minute, and second in the same way.

When the [►/II (ENTER)] button is pressed with the cursor on the "Second" position, the date and time are set.





Setting Material File Playback Mode

The playback method for material files can be changed.

1 Press the [MENU] button to access the Menu screen, and select the "Play Mode."

Select the "Play Mode" with the [◄◄ (♠)] [▶► (♥)] buttons, and then press the [►/II(ENTER)] button.

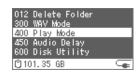
2 Select playback mode with the [I◄◄ (▲)] [►►I (▼)] buttons.

Value	Description
Single	Plays the currently selected file only once.
Single Repeat	Repeatedly plays the currently selected file.
Sequential	Plays all files in the currently selected folder only once in order of the file names.
	Playback begins with the selected file and stops after the last file has been played.
Sequential Repeat	Repeatedly plays all the files in the currently selected folder in order of the file names. Playback begins with the selected file.

- * When "Single Repeat," "Sequential," or "Sequential Repeat" is selected, the output signal may be distorted between files, but this is not a malfunction.
- 3 Verify by pressing the [►/II (ENTER)] button.

An icon may be displayed at the bottom of the Home screen, depending on the Playback Mode.

Single	Single Repeat	Sequential	Sequential Repeat
(No Display)	O	圭	





Setting the Time until the Display Turns Off (Display Timer)

To reduce power consumption, the display can be set to automatically turn off if there are no operations for a fixed period of time.

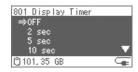
1 Press the [MENU] button to access the Menu screen, and select the "Display Timer."

Select the "Display Timer" with the $[\bowtie (\blacktriangle)] [\bowtie (\blacktriangledown)]$ buttons, and then press the [►/II(ENTER)] button.

2 Select the time until the display turns off with the [|◄◄ (▲)] [▶►| (▼)] buttons.

Value	Description
OFF	The display is always on.
2 sec	If the specified time passes after an operation,
5 sec	the display turns off.
10 sec	
20 sec	

700 Network Setting 800 Display Brightness 801 Display Timer 810 LED 830 Peak Hold ①101.35 GB



3 Verify by pressing the [►/II (ENTER)] button.

Setting the Brightness of the Display

The display's brightness can be adjusted.

1 Press the [MENU] button to access the Menu screen, and select the "Display Brightness."

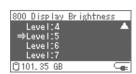
Select the "Display Brightness" with the [◄◄ (♠)] [▶► (▼)] buttons, and then press the [►/II(ENTER)] button.

2 Adjust the brightness with the $[\bowtie \blacktriangleleft (\blacktriangle)] [\bowtie \bowtie (\blacktriangledown)]$ buttons.

Value	Description
Level: 0-7	Brightness increases as the value is increased.

Verify by pressing the [▶/|| (ENTER)] button.





Setting the Lamp Illumination Method

The "POWER Lamp," "REC Lamp," and "Status Lamp" on the front panel light according to the F-1's status. These lamps can also be set so they don't light.

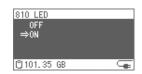
1 Press the [MENU] button to access the Menu screen, and select the "LED."

Select the "LED" with the [$\blacktriangleright \leftarrow$ ($\blacktriangleright \sim$)] [$\blacktriangleright \rightarrow$ ($\blacktriangledown \sim$)] buttons, and then press the [$\blacktriangleright \sim$] (ENTER)] button.

2 Set whether to use these lamps with the [I◄◄ (▲)] [►►I (▼)] buttons.

Value	Description
OFF	The lamps are always off.
	Example: The POWER lamp does not light even if the power is on.
ON	The lamps light according to the F-1's status.





3 Verify by pressing the [►/II (ENTER)] button.

Setting the Time for the Power to Turn Off Automatically

To reduce power consumption, the power can automatically be turned off when the unit has not been operated for a predetermined amount of time.

During capture or while connected via USB, the power does not turn off even if no operations are performed within the set period of time.

1 Press the [MENU] button to access the Menu screen, and select the "Auto Power OFF."

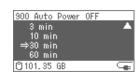
Select the "Auto Power OFF" with the [$\blacktriangle \blacktriangleleft (\blacktriangle)$] [$\blacktriangleright \blacktriangleright \blacktriangleright (\blacktriangledown)$] buttons, and then press the [$\blacktriangleright \blacktriangleright / \parallel (ENTER)$] button.

Select the time until the power turns off with the [(♠) [▶►) (♥)] buttons.

Value	Description
OFF	Off
3 min	If the specified time passes after an operation, the
10 min	power turns off automatically.
30 min	The POWER lamp begins to blink thirty seconds
60 min	before the power is turned off.

3 Verify by pressing the [►/II (ENTER)] button.





Setting the Language for Display

The language shown on the display can be selected.

1 Press the [MENU] button to access the Menu screen, and select the "Language."

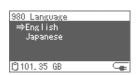
Select the "Language" with the [$\blacktriangle \blacktriangleleft$ (\blacktriangle)] [$\blacktriangleright \blacktriangleright \blacktriangleleft$ (\blacktriangledown)] buttons, and then press the [$\blacktriangleright \diagup \blacksquare$ (ENTER)] button.

2 Set the display language with the [I◄◄ (▲)] [▶►I (▼)] buttons.

Value	Description
English	English is used for display.
Japanese	Japanese is used for display.

3 Verify by pressing the [►/II (ENTER)] button.





Restoring the Factory Defaults (Factory Reset)

The F-1's settings can be reset to the factory default settings.

- * See "Menu List" (p. 54) for details on the factory default settings.
- 1 Press the [MENU] button to access the Menu screen, and select "Factory Reset."

Select "Factory Reset" with the [◄◄ (♠)] [▶► (♥)] buttons, and then press the [►/II(ENTER)] button.

- 2 Select the "Yes" with the [◄◄ (♠)] [►► (♥)] buttons.
- 3 Confirm the choice by pressing the [►/II (ENTER)] button.

The F-1's settings are restored to the factory default settings.





Menu List

* The default value (factory setting) is printed in bold characters.

Number		Menu Item	Value
001	Sync Rec Capture begins and is synchronized to the recording operation of the camera linked to the i.LINK connector.		Disable, Sync
002	Audio Sync Sets the delay for captured audio to correct the synchronization gap between audio and video (*.m2t or *.dv).		0-17-30
005	Delete File Deletes the cu	rrently selected material file.	_
010	Selects the co	er ntainer in which to store material files.	_
011	Create New Creates a new		_
012	Delete Folder Deletes the currently selected container.		_
300	WAV Mode Sets the number of channels for the WAV file created during audio capture.		Stereo, Mono X 2
400	Play Mode Sets the playback method for the material file.		Single, Single Repeat, Sequential, Sequential Repeat
450	Audio Delay Sets the lag time for the output audio.		0-90-999
600	Disk Utility	Copy File to USB Copies the currently selected material file(s) to the USB mass storage device.	_
		Backup to USB Backs up all material files to the USB mass storage device.	_
		Format USB Initializes the USB mass storage device.	_
		Check USB Scans the USB mass storage device.	_
		Clear Int. Drive Deletes all data on the removable storage.	_
		Format Int. Drive Formats the removable storage.	_
		Check Int. Drive Scans the removable storage.	

Number		Menu Item	Value
700	Network Setting	TCP/IP Sets the TCP/IP protocol.	Manual, DHCP
		IP Address (*1) Sets a fixed IP address.	0.0.0.0 -192.168.0.1 - 255.255.255.255
		Subnet Mask (*1) Sets the subnet mask.	0.0.0.0 -255.255.255.0 - 255.255.255.255
		Gateway (*1) Sets the gateway.	0.0.0.0-255.255.255.255
		Port Number Sets port number to remotely control the F-1 from a PC.	50000 –50003
		Check Host Name Displays the F-1's host name.	_
800	Display Brightness Adjusts the display brightness.		Level: 0- 5 -7
801	Display Timer Sets the time until the display is turned off when there is no activity for a fixed amount of time.		OFF , 2 sec, 5 sec, 10 sec, 20 sec
810	LED Sets whether the POWER, REC, and Status Lamps are used.		OFF, ON
830	Peak Hold Sets whether peak hold for a fixed time is used for the Audio Level Meter.		OFF, ON
850	File List (VGA) Sets the display method for the file list shown on a VGA display.		Name, Thumbnail
900	Auto Power OFF Sets the time until the power is turned off when there is no activity for a fixed amount of time.		OFF, 3 min, 10 min. 30 min . 60 min
910	Battery Type Sets the battery type used.		Alkaline, Ni-MH
920	Set Time & Date Sets the date and time.		_
930	System Status Displays the F-1's version and system information.		_
980	Language Sets the language to use for the display.		English, Japanese
990	System Update Updates the system.		_
999	Factory Res	set enu settings to the factory default settings.	_

^{*1} Enabled when "TCP/IP" is set to "Manual."

Troubleshooting

If you suspect a malfunction, please check the following points. If this does not resolve the problem, contact a nearby EDIROL/Roland Service Center.

Power Supply

Problem	Cause and Action
The power won't turn on	 ◆ Are you using an AC adaptor other than the one supplied? → Please use the included AC adaptor (p. 23).
	 Are the batteries oriented properly? → Check that the battery terminals (+ and -) are oriented correctly (p. 25).
The power turns off suddenly	 If no operations are performed within a set period of time, the power may automatically turn off according to the Auto Power Off settings. → Set the menu item "Auto Power OFF" to "Off" (p. 52).
	 When using batteries, the power will turn off if the batteries are low. → Replace with new batteries (p. 24).
	 Does the "Battery Type" setting match the batteries being used? → Please set the menu item "Battery Type" to match the batteries being used (p. 26). Incorrect battery settings can cause a problem in operation due to voltage drops.

Problems during Capture

Problem	Cause and Action	
Cannot perform capture	 Is the HDV/DV stream being input? → If there is no HDV/DV stream being input, a capture will not start even if the [
	 Is the removable storage inserted properly? → If the removable storage is not detected properly, the "Media is not exist" error message is displayed. After turning off power, re-insert the removable storage (p. 37). 	
	 Is the rear cover open? → If the rear cover is not completely closed, the "Rear cover is opened." error message is displayed. Please close the rear cover. 	
Timecode display stops during capture	 The timecode output from the HDV/DV camera may not be correct. → Please confirm the capture time with the Total Time shown on the Home Screen. 	
"i.LINK TC Error." is displayed	■ Timecode is not included in the input DV/HDV stream. ⇒ The capture is performed but the timecode is not saved correctly in the "*.dv" or "*.m2t" file that is created. Furthermore, if audio is captured at the same time, the timecode in the created WAV file starts from "00:00:00:00."	

PC Problems

Problem	Cause and Action	
Cannot connect to the PC using USB	were already connected using USB?	
	→ First turn on power to the F-1, then connect the PC and F-1 using USB (p. 29).	
*.dv files do not play on the PC	• Is QuickTime™ installed on your PC? → *.dv files cannot be browsed or edited on a PC that does not have QuickTime™ installed. Please download the QuickTime™ application from the Apple website. http://www.apple.com/quicktime/download/	

Playback Problems

Problem	Cause and Action	
"Format Disagreement." is displayed	 Does the format of the HDV/DV camera match that of the material file being played? → Set the format of the HDV/DV camera so it matches the format of the material file to be played. If the formats do not match, then the stream cannot be played on the F-1. 	
	There are also cameras that have a mode that automatically switches the HDV/DV format. Even if this mode is set, you may not be able to play the stream on the F-1.	
Timecode is not output correctly	 Could you be capturing an HDV/DV stream that does not include timecode? → If you capture an HDV/DV stream without timecode, the timecode won't be saved correctly in the "*.dv" or "*.m2t" file that is created. As a result, upon playback, the timecode that's output will be incorrect. 	

Audio Problems

Problem	Cause and Action	
The microphone cannot be used	 Is a condenser microphone connected? → When a condenser microphone requiring +48v phantom power is connected, please set the [+48V] switch to "ON" to supply phantom power (p. 13). 	
The volume of the device connected to the AUDIO IN Connector is low	-	
The captured audio is too low	 Did you adjust the audio input level? → Turn up the audio input level using the [AUDIO IN Level] knob (p. 14). 	

Network Problems

Problem	Cause and Action
When connecting from a PC (Windows), I'm asked for a user password	 Have you set the login password for the PC? → Please set the PC login password.
The F-1 is not displayed in the PC (Windows) workgroup	 The F-1 may not be shown depending on the Windows network usage status. ⇒ Enter the following in Explorer on the PC. \(\(\(\text{IP}\)\) address of the F-1\(\text{F1DRIVE}\) Example: \(\(\(\text{169.254.78.100\}\)\)F1DRIVE
	* Verify the IP address of the F-1 using the menu items "Network Setting" \to "IP Address."

Other Problems

Problem	Cause and Action	
The POWER lamps and other lamps do not light	 Are the lamps set to be off? → Set the menu item "LED" to "ON" (p. 52). 	
The internal clock (date/ time setting) resets	 Was the power supply disconnected? → The internal clock operates using power supplied from either the AC adaptor or batteries. When the power is off, the internal clock settings can be maintained for a maximum of thirty days using the power "1 stored in the unit. If power is not supplied for longer than this, the internal clock settings are reset. If batteries are inserted as a backup power supply, the internal settings can be maintained for a longer period (p. 24). 	
	*1 To achieve storage of the maximum amount of power, it takes 24 hours in the following state. Connect the AC adapter or supply power or insert batteries.	
Remaining battery power is not displayed correctly	 Does the "Battery Type" setting match the batteries being used? → Please set the menu item "Battery Type" to match the batteries being used (p. 26). 	
Amount of space remaining on the removable storage is not displayed correctly	 If the F-1 is started with USB mass storage connected, the USB mass storage may be mistakenly identified as removable storage. → Restart the F-1 after removing the USB mass storage and checking that the removable storage is correctly connected. 	
The display is difficult to read	 The display may be difficult to read depending on where the unit is placed and on the conditions. → Adjust the menu item "Display Brightness" (p. 51). 	
The display is dark	 The display turns off when there is no activity for a fixed amount of time according to the display timer settings. → Set the menu item "Display Timer" to "OFF" (p. 51). 	

Other Problems (continued)

Problem	Cause and Action			
No response to actions/ Operations do not complete	If the unit becomes unresponsive to your actions or if operations fail to complete, please turn off power following the procedure below. The following procedures are to be used as emergency measures only, and are not recommended for normal operation.			
	 Hold down the [() (power)] button for about four seconds to switch off the power. Unplug the power cord from the electrical outlet. (If batteries are installed, remove the battery case.) 			
	If the unit does not operate normally when the power is turned on again, it may mean that the hard disk has been damaged. In such instances, consult your dealer or the nearest EDIROL/Roland Service Center. Note, however, that it may not be possible to recover any data from the removable storage once it has been lost.			
	Also, please perform periodic scans of the removable storage (p. 39) even if operating normally.			

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- · Updates,
- · Supplements,
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 training, online assistance and Appshelp.
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 identity of Internet users sending X.509 standard encrypted information. The software retrieves
 certificates and updates certificate revocation lists. These security features operate only when you
 use the Internet.
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 - · Compatible online music services in your region;
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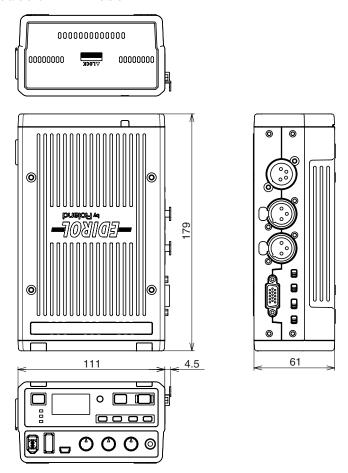
Main Specification

Video Recording	Format	HDV (.m2t), DV (.dv)					
Audio	Format	WAV (supported BWF)					
Recording	Bit Depth	16 bit					
	Sampling Rate	48 kHz					
Audio Control	Switch	Gain (MIC/-20dB/LINE), Phantom Power +48V (ON/OFF)					
	Volume	Ch3 Input, Ch4 Input, Headphones					
Audio Input Impe	dance	4 k ohms					
Headphones Outp	out Impedance	16 ohms					
Headphones Output Level		45 mW					
Media		Hard Disk Drive (120 GB) * Removable unit					
Max Recording time		about 9 hours (when using F1-HD120 120 GB, no audio, HDV 1080i or DV recording) about 12 hours (when using F1-HD120 120 GB, no audio, HDV 720p recording)					
Input/Output Connectors	Front	 i.LINK Connector: 6-pin Connector (conforms to IEEE1394) USB A Type Connector (For USB Storage device, USB Mouse) Supports 2.0 High-Speed USB mini B Type Connector (For Computer) Supports 2.0 High-Speed 					
	Right Side		put (Analog RGB, 800x600 fixed resolution):				
		o Diopiny out	15-pin mini D-sub Type Connector				
		Audio Input (Ch3,Ch4): 3-pin XLR Type Connector x 2					
		Power: 4-pin XLR Type Connector					
	Left Side	■ LAN Connector (Ethernet 10/100Base-Tx): RJ45 Type Connector					
Display		128 x 64 dots Graphic (OLED)					
Power Supply		DC 9 V (AC Adaptor) * 9-16V 2.0A					
		or HR15/51 x 8 or LR6 (AA) x 8					
Max Operation tin	ne	about 2 hour (Nickel Metal Hydride Battery)					
		about 30 minutes (Alkaline Dry Battery)					
		about 10 hour (External, IDX Endura10 Li-Ion Battery)					
		* Battery life will be changed according to the system situation.					
Current Draw		1,500 mA					
Dimensions	Dimensions		111 (W) x 179 (D) x 61 (H) mm 4-3/8 (W) x 7-1/6 (D) x 2-3/8 (H) inches				
Weight		. ,	oz (including HDD, excluding AC Adaptor and batteries)				
Operation Tempe	rature	+5 to +40 degrees Celsius					
		+41 to +104 degrees Fahrenheit					
Bundled Software)	F-1 Utility / F-1	Net Control				
		Functions	File Browser, Remote Control via Network				
		System requirements	OS:Windows XP SP2 or later, Windows Vista SP1 or later PC: CPU Core 2 Duo 2 GHz or higher, memory 2 GByte or more, USB ports, display resolutions 1024 x 768 pixels or higher				
		* this software can be downloaded at Roland Systems Group website. (www.rolandsystemsgroup.net)					
Accessories		Owner's Manual, AC Adaptor (PSB-1U), Power Cord Conversion Cable (AC Adaptor ↔ 4pin XLR type connector) Removable Storage (F1-HD120 120 GB Hard Disk Drive) Battery Case, USB Cable (Y type with power supply), Ferrite Core x 4					
Options		F1-HD120 (120 GB Hard Disk Drive), F1-VMK1 (V-Mount kit), CB-F1 (Carrying Bag)					

^{*} In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

Dimensions

Dimensions are shown in millimeters.

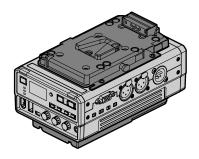


Optional Accessories

The following products are offered as optional accessories.

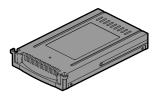
V-Mount Kit F1-VMK1

When the F1-VMK1 V-Mount Kit is installed on the F-1, the F-1 can be attached to devices that support V-Mount. In addition, the Endura Battery (V-Mount type) from IDX Company, Ltd. can also be used.



120 GB Hard Disk F1-HD120

This is a replacement for the removable hard disk (120 GB).



Carrying Bag CB-F1

This bag was designed to hold and carry the F-1 unit and the removable storage. You can also operate the F-1 while it is in the bag.

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- Dette symbolet indikerer at produktet må behandles som spesialavfall i EU-land, iht. til retningslinjer for den enkelte regionen, og ikke kastes sammen med vanlig husholdningsavfall. Produkter som er merket med dette symbolet, må ikke kastes sammen med vanlig husholdningsavfall.

- SE Symbolen anger att i EU-länder måste den här produkten kasseras separat från hushållsavfall, i enlighet med varje regions bestämmelser. Produkter med den här symbolen får inte kasseras tillsammans med hushållsavfall.
- Tämä merkintä ilmaisee, että tuote on EU-maissa kerättävä erillään kotitalousjätteistä kunkin alueen voimassa olevien määräysten mukaisesti. Tällä merkinnällä varustettuja tuotteita ei saa hävittää kotitalousjätteiden mukana.
- Ez a szimbólum azt jelenti, hogy az Európai Unióban ezt a terméket a háztartási hulladéktól elkülönítve, az adott régióban érvényes szabályozás szerint kell gyűjteni. Az ezzel a szimbólummal ellátott termékeket nem szábad a háztartási hulladék közé dobni.
- Symbol oznacza, że zgodnie z regulacjami w odpowiednim regionie, w krajach UE produktu nie należy wyrzucać z odpadami domowymi. Produktów opatrzonych tym symbolem nie można utylizować razem z odpadami domowymi.
- Tento symbol udává, že v zemích EU musí být tento výrobek sbírán odděleně od domácího odpadu, jak je určeno pro každý region. Výrobky nesoucí tento symbol se nesmí vyhazovat spolu s domácím odpadem.
- Tento symbol vyjadruje, že v krajinách EÚ sa musí zber tohto produktu vykonávať oddelene od domového odpadu, podľa nariadení platných v konkrétnej krajine. Produkty s týmto symbolom sa nesmú vyhadzovať spolu s domovým odpadom.
- See sümbol näitab, et EL-i maades tuleb see toode olemprügist eraldi koguda, nii nagu on igas piirkonnas määratletud. Selle sümboliga märgitud tooteid ei tohi ära visata koos olmeprügiga.
- Šis simbolis rodo, kad ES šalyse šis produktas turi būti surenkamas atskirai nuo buitinių atliekų, kaip nustatyta kiekviename regione. Šiuo simbolių paženklinti produktai neturi būti išmetami kartu su buitinėmis atliekomis
- Šis simbols norāda, ka ES valstīs šo produktu jāievāc atsevišķi no mājsaimniecības atkritumiem, kā noteikts katrā reģionā. Produktus ar šo simbolu nedrīkst izmest kopā ar mājsaimniecības atkritumiem.
- Ta simbol označuje, da je treba proizvod v državah EU zbirati ločeno od gospodinjskih odpadkov, tako kot je določeno v vsaki regiji. Proizvoda s tem znakom ni dovoljeno odlagati skupaj z gospodinjskimi odpadki.
- Πο σύμβολο αυτό υποδηλώνει ότι στις χώφες της Ε.Ε. το συγκεκριμένο προϊόν πρέπει να συλλέγεται χρομοτά από τα υπόλοιπα οικιακά απορομίματα, σύμφωνα με όσα προβλέπονται σε κάθε περιοχή. Τα προϊόντα που φέφουν το συγκεκριμένο σύμβολο δεν πρέπει να απορρίπονται μαζί με τα οικιακά αποφρίμματα.

- For China -

有关产品中所含有害物质的说明

本资料就本公司产品中所含的特定有害物质及其安全性予以说明。

本资料适用于2007年3月1日以后本公司所制造的产品。

环保使用期限



此标志适用于在中国国内销售的电子信息产品,表示环保使用期限的年数。所谓环保使用期限是指在自制造日起的规定期限内,产品中所含的有害物质不致引起环境污染,不会对人身、财产造成严重的不良影响。 环保使用期限仅在遵照产品使用说明书,正确使用产品的条件下才有效。 不当的使用,将会导致有害物质泄漏的危险。

产品中有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素					
部件名称	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
外壳 (壳体)	×	0	0	0	0	0
电子部件(印刷电路板等)	×	0	×	0	0	0
附件(电源线、交流适配器等)	×	0	0	0	0	0

- 〇:表示该有毒有害物质在该部件所有均质材料中的含量均在 SI/T11363-2006 标准规定的限量要求以下。
- ※:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。 因根据现有的技术水平,还没有什么物质能够代替它。



This product complies with the requirements of EMC Directive 2004/108/EC.

-For the USA

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Unauthorized changes or modification to this system can void the users authority to operate this equipment. This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada

NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

-For the USA -

DECLARATION OF CONFORMITY Compliance Information Statement

Model Name: F-1

Type of Equipment: Field Recorder

Responsible Party: Roland Systems Group U.S.

Address: 425 Sequoia Drive Suite 114, Bellingham, Washington, 98226 USA

Telephone: (360) 594-4282

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- * Windows[®] is known officially as: "Microsoft[®] Windows[®] operating system."
- * Mac OS and QuickTime are registered trademarks of Apple Inc.
- * Oxyride battery is a trademark of Matsushita Electric Industrial Co., Ltd.

Information

When you need repair service, call your nearest EDIROL/Roland Service Center or authorized EDIROL/Roland distributor in your country as shown below.



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KOREA AVICS CO., LTD. 463-3 Sunghwa bldg. 3rd F., Seokyo-Dong, Mapo-ku, Seoul, KOREA Tel: 02-322-3264

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As of Oct. 1, 2007 (EDIROL-2)

